



# SEQUENCE LISTING

<110> Imperial College Innovations Limited

<120> Control of Gene Expression Using  
a Complex of an Oligonucleotide and a  
Regulatory Peptide

<130> ICOY/P27203CA

<160> 25

<170> PatentIN version 3.1

<210> 1

<211> 36

<212> PRT

<213> Artificial Sequence

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<223> SAP18 chromatin inactivation domain

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<221> MISC\_FEATURE

<222> (1)..(3)

<223> AAA or DDD

<400> 1

Xaa Xaa Xaa Met Ala Val Glu Ser Arg Val Thr Gln Glu Glu Ile  
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Lys Lys Glu Pro Glu Lys Pro Ile Asp Arg Glu Lys Thr Cys Pro  
20 25 30

Leu Leu Leu Arg Val Phe  
35

<210> 2

<211> 32

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<223> MAD1 chromatin inactivation domain

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<222> (1)..(3)

<223> AAA or DDD

<400> 2

Xaa Xaa Xaa Met Asn Ile Gln Met Leu Leu Glu Ala Ala Asp Tyr Leu  
1 5 10 15

Glu Arg Arg Glu Arg Glu Ala Glu His Gly Tyr Ala Ser Met Leu Pro  
20 25 30

<210> 3

<211> 16

<212> PRT

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<220>

<223> Antennapedia homeodomain based Penetratins

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 Arg Gln Ile Lys Ile Trp Phe Gln Asn Arg Arg Met Lys Trp Lys Lys  
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<400> 4  
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<400> 5  
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Pro Ala Asp Ala Leu Asp Asp Phe Asp Leu Asp Met Leu  
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<210> 7  
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 <223> Herpes Simplex Virus VP16 Transcriptional Activator protein

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 Gly Gly Gly Pro Ala Asp Ala Leu Asp Asp Phe Asp Leu Asp Met Leu  
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Pro Ala Asp Ala Leu Asp Asp Phe Asp Leu Asp Met Leu Pro Ala Asp  
 20 25 30

Ala Leu Asp Asp Phe Asp Leu Asp Met Leu Pro Ala Asp Ala Leu Asp



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<223> Androgen receptor gene regulatory site primer 2

<400> 11  
gggaggggaa aggaaaagag g

21

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<223> ARP TFO

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<222> (2)..(2)  
<223> 2'-deoxy-6-thioguanine

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<222> (4)..(4)  
<223> 5-fluoro-deoxyuracil

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<222> (9)..(9)  
<223> 2'-deoxy-6-thioguanine

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18

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<223> L217 peptide

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Arg Met Lys Trp Lys Lys Asp Asp Asp Met Asn Ile Ala Met Leu Leu  
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Glu Ala Ala Asp Tyr Leu Glu  
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Asp Tyr Leu Glu Arg Arg Glu Arg Glu Ala Glu His Gly Tyr Ala Ser  
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Arg Met Lys Trp Lys Lys  
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<210> 15  
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<212> DNA  
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<223> Human androgen receptor primer sense

<400> 15  
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<210> 16  
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<212> DNA  
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<220>  
<223> Human androgen receptor primer antisense

<400> 16  
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<223> L219 Peptide

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20 25 30

His His His His His Arg Gln Ile Lys Ile Trp Phe Gln Asn Arg  
35 40 45

Arg Met Lys Trp Lys Lys  
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 <223> Progesterone Receptor Forward primer  
  
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 <223> Progesterone Receptor Reverse primer  
  
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 <223> ?-actin Forward primer  
  
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 ttttcgcaaa aggaggggag 20  
  
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 <223> ?-actin Reverse primer  
  
 <400> 22  
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 <210> 23  
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 <212> PRT  
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 <223> DDD-MAD1-DDD-NLS peptide  
  
 <400> 23  
 Asp Asp Asp Met Asn Ile Gln Met Leu Leu Glu Ala Ala Asp Tyr Leu  
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 Glu Arg Arg Glu Arg Glu Ala Glu His Gly Tyr Ala Ser Met Leu Pro  
 20 25 30  
 Asp Asp Asp Pro Lys Lys Lys Arg Lys Val  
 35 40  
  
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<212> PRT  
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<220>  
<223> DDD-NLS-DDD-MAD1 peptide

<400> 24  
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1 5 10 15  
Gln Met Leu Leu Glu Ala Ala Asp Tyr Leu Glu Arg Arg Glu Arg Glu  
20 25 30  
Ala Glu His Gly Tyr Ala Ser Met Leu Pro  
35 40

<210> 25  
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<212> PRT  
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<223> SV40 T-antigen NLS peptide

<400> 25  
Pro Lys Lys Lys Arg Lys Val  
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